

M A T E R I A L S A F E T Y D A T A S H E E T



Osmocote® Controlled Release Fertilizer 14-14-14

90003-6

Scotts-Sierra Horticultural Products Co.
The Scotts Company
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Marysville, Ohio 43041

In Case of Emergency call:
1-937-644-0011 (USA)
For non-Emergency calls:
1-937-644-0011 (USA)

I. MATERIAL IDENTIFICATION

Product Name:	Osmocote® Controlled Release Fertilizer	NEPA Hazard Ratings	
Analysis:	14-14-14	Health 2	0 Least 1 Slight
Stock Number:	90003-6	Flammability 0	2 Moderate 3 High
		Reactivity 1	4 Severe

II. HAZARDOUS INGREDIENTS

MATERIAL	CAS #	OSHA PEL	ACGIH TLV
Ammonium Nitrate	6484-52-2	None	None
Potassium Sulfate	7778-80-5	None	None
Ammonium Phosphates	7783-28-0/7722-76-1	None	None
Calcium Phosphates	7758-23-8/7757-93-9/7758-87-4	None	None
Calcium Fluoride	7789-75-5	2.5 mg(F)/m3	2.5 mg(F)/m3

- * Each prill consists of the ingredients listed above coated with a resin made from a vegetable oil (linseed oil or soybean oil) reacted with a cyclic diene.
- * All exposure limits are for airborne 8-hour time-weighted averages and apply only to occupational exposures. Product coating is expected to minimize airborne exposures.
- * The ACGIH Threshold Limit Values for nuisance (inert) dusts containing <1% crystalline silica and no asbestos are: 10 mg/m3 total, 5 mg/m3 respirable. Product coating is expected to minimize airborne exposure.

III. FIRST AID PROCEDURES

Eyes:	If in eyes, flush with water for 15 minutes holding eyelids open. Get medical attention if irritation persists.
Ingestion:	Never give anything by mouth to an unconscious or convulsing person. Have conscious person drink 1 to 2 glasses of water or milk, then induce repeated vomiting until vomit is clear. Call physician.
Skin:	Wash with plenty of soap and water.
Inhalation:	Remove to fresh air. Treat symptomatically.

IV. HEALTH HAZARD INFORMATION

Summary of Risks

Ammonium nitrate is an allergen. Prolonged or repeated direct contact with fertilizer may irritate eyes and skin. Inhalation of dust may irritate nose, throat, and lungs. Prolonged exposure may cause weakness, depression, mental impairment, anemia, methemoglobinemia, and kidney injury. Ingestion of product can cause severe gastrointestinal irritation, muscular weakness, and blue-tinged skin (cyanosis). Infants and children are especially at risk for cyanosis. Ingestion of large amounts may result in death.

Medical conditions which may
be aggravated by contact:

Target Organs:

Primary Entry Route(s):

Chronic Effect(s):

Ingredients Listed as a Carcinogen

Ammonium nitrate allergies Skin abrasions and sores.
Skin, eyes, respiratory tract, and gastrointestinal tract.
Ingestion, inhalation
Not known.

IARC Monographs: No

NTP: No

OSHA: No

V. PERSONAL PROTECTION AND PRECAUTIONS

Warning Properties of Uncoated Fertilizer: Irritation of eyes, nose, or mouth

Goggles: None required for routine use as fertilizer. High airborne dust levels or mists of product dissolved in liquid may be irritating; use chemical goggles.

Gloves: None required for normal use. If prolonged or repeated use irritates skin, use neoprene or PVC gloves.

Respirator: If airborne dust levels are high or product does not remain intact, use a combination of engineering controls (e.g. ventilation) and personal protection (e.g. NIOSH/MSHA approved respirator for dusts, mists, and fumes) to reduce exposures to acceptable levels.

Workplace Considerations

Ventilation: Ventilation and personal protection are recommended whenever dust levels are high or product does not remain intact.

Safety Stations: Running water should be available in case material gets in eyes.

Other: Ingredients with occupational exposure limits comprise a small percentage of the total product. For this reason, it is not expected that these limits will be exceeded unless the nuisance dust standards are exceeded.

VI. PHYSICAL HAZARD INFORMATION

Flammable Limits (% in Air):	N/A	Color:	Mixed light/dark tan
Extinguishing Media:	Water	Odor:	None
Auto Ignition Temperature:	N/A	Melting Point:	Decomposes on heating
Flash Point (method):	Decomposes on heating	Boiling Point:	Decomposes on heating
		Solubility in H ₂ O	80-85%
		Specific Gravity:	(H ₂ O = 1) 1.2
Reactivity		Vapor Pressure:	Not Known
Stability:	Stable	Evaporation Rate:	N/A
Hazardous Polymerization:	Will Not Occur		
Conditions to Avoid:	Extreme heat. Contact with fuels and other organic or combustible materials. Active metals such as aluminum and magnesium. Strong reducing agents.		
Hazardous Decomposition Products:	Ammonia and oxides of nitrogen, phosphorous, potassium, and sulfur.		
Chemical Incompatibilities:	Strong reducing agents. Active metals such as aluminum and magnesium.		
Unusual Fire, Explosion and Reactivity Hazards:	Decomposes on heating to emit toxic ammonia and oxides of nitrogen, phosphorous, potassium, fluorine, and sulfur. High airborne dust concentrations have the potential for explosion.		
In Case of Fire:	Evacuate area. Flood with water to cool containers. Wear self-contained breathing apparatus to fight large fires.		

VII. REGULATORY INFORMATION

DOT Classification: Not DOT regulated.

VIII. STORAGE AND SPECIAL PRECAUTIONSPrecautions to be taken in handling and storage: Store in a cool, dry area away from incompatible materials and heat sources. Store away from feed and foodstuffs, as well as household cleaning products. Wash hands with soap and water after handling product. Keep out of reach of children.In case of spills: Avoid dusting or misting conditions during cleanup. If material is uncontaminated, collect and reuse as recommended for product. If contaminated, put in appropriate container and dispose. Keep spills away from drinking water supplies. After cleaning up spill, flush area with water.Waste management/disposal: Apply as fertilizer to field. If product is contaminated, dispose of in an approved landfill disposal facility, in accordance with applicable federal, state, and local regulations.

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